A joint conference of IUFRO Working Groups 2.04.01 (Population, ecological and conservation genetics) and 2.04.10 (Genomics), and COST Action E-28 (Genosilva: European Forest Genomics Network)

October 1-6, 2006
Alcalá de Henares, Madrid, Spain

Introduction

Forest genetics has experienced a significant revolution in recent years. The development of forest genomics and high-throughput genotyping methods, together with new and refined statistical approaches for population analysis, have brought extraordinary advances in the study of evolutionary processes in the wild. Tree species, such as pine, spruce, poplar or eucalyptus, are nowadays considered non-classical models for population, evolutionary and ecological studies. Genetic diversity of forest trees is recognised to have ecosystem-wide importance. Multidisciplinary approaches, bringing together ecologists, geneticists and physicists, amongst others, are now combined to understand the genetic determinism of adaptive traits and to study the patterns of adaptive variation at landscape level.

In this spirit, an IUFRO Conference will be held in the exceptional venue of Alcalá de Henares (Madrid, Spain), in line with previous IUFRO Working Group meetings on Population, Ecological and Conservation Genetics (2.04.01) and Genomics (2.04.10). The IUFRO Conference will be organised jointly with the EU COST Action E-28 final meeting (Genosilva: European Forest Genomics Network), effectively merging genomics and population and ecological genetic approaches. A selection of invited speakers from different disciplines and the organisation of thematic workshops will contribute to cutting-edge discussions, while enjoying the charming environment of the town of Alcalá de Henares. Multiple manifestations of Spanish history, from Romans to the Renaissance, are found in its churches, monuments and charming streets, which witnessed the birth of Miguel de Cervantes in 1547. The University, one of the oldest in Spain, became a model for other centres of learning in Europe and America after its foundation in 1499, which gave way to a process of urban renewal that transformed Alcalá into a university city built in accordance with the canons of classical architecture. UNESCO recognised the city and the University of Alcalá as a World Heritage Site in 1998.
**Programme**

**Sunday, October 1**
- 18:00 Conference check-in
- 19:00 Welcome cocktail

**Monday, October 2**
- **IUFRO Plenary Sessions**
  - 08:30 Conference opening
  - 09:15 Invited speaker
    Dr. Christer Lexer
    (Royal Botanic Gardens, Kew, UK)
  - 10:00 Coffee break
  - 10:30 Session I. Gene flow, spatial structure and hybridization
  - 12:30 Lunch
  - 14:00 Session II. Quantitative genetics, QTL studies and adaptation
  - 16:00 Coffee break
  - 16:30 Session IV. Quantitative genetics, QTL studies and adaptation
  - 18:00 Poster Session I

**Tuesday, October 3**
- **IUFRO Plenary Sessions**
  - 08:30 Invited speaker
    Dr. Christian Lexer
    (Royal Botanic Gardens, Kew, UK)
  - 09:15 Session III. Gene flow, spatial structure and hybridization
  - 10:00 Coffee break
  - 10:30 Session III (cont.)
  - 12:30 Lunch
  - 14:00 Session IV. Quantitative genetics, QTL studies and adaptation
  - 16:00 Coffee break
  - 16:30 Session IV (cont.)
  - 18:00 Poster Session II

**Wednesday, October 4**
- 08:30 Parallel Workshops (organized freely by workshop leaders) from 8:30 to 18:30
  - **Workshops**
    - A. Association mapping in forest trees
      Organized by: David A. Naito (University of California, USA) and Santiago C. González-Martínez (CIFOR, IMA, Spain)
    - B. Simulation models of tree population genetics: integrating mating systems, demography, ecology and selection traits
      Organized by: John R. Pannell (University of Oxford, UK), Juan José Robledo-Arnuncio (Universidade de Montpellier 2, France), Miguel Verdú (CICbiomaGIC, CSIC-UV, Spain) and Frédéric Austerlitz (Université Paris-Sud, France)
  - C. Development, adaptation and phenotypic plasticity
    Organized by: Fernando Valladares (CCMA, CSIC, Spain) and José Climent (CIFOR, INIA, Spain)
  - 10:00 Coffee break
  - 10:30 Workshops (cont.)
  - 12:30 Lunch
  - 14:00 Conference visits
    - A) Tourist visit around Alcalá de Henares
    - B) Field trip I (conifer forest)
    - C) Field trip II (oak forest)

**Thursday, October 5**
- **Cost Action E-28**
  - 08:30 Invited Speaker
    Dr. Poliberto Tuberosa
    (University of Bologna, Italy)
  - 09:15 Session I. Functional genomics of tree health
    Coffee break
  - 10:30 Session I (cont.)
  - 12:30 Lunch
  - 14:00 Session II. Functional genomics of tree maturation and reproduction
    Coffee break
  - 16:00 Conference dinner

**Friday, October 6**
- **Cost Action E-28**
  - 08:30 Session III. Functional genomics of wood formation
    Coffee break
  - 10:00 Session III (cont.)
  - 11:45 Invited speaker
    Dr. Yves Bilodeau
    Chairman COST DC Forest and Forestry Products
  - 12:30 Wrap-up of the Conference
    Lunch
  - 14:00 COST Management Committee Meeting
  - 18:00 Poster Session II

**Registration fees**

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